Bruhat Bangalore Mahanagara Palike
Executive Engineer Yelahanka Division

Name of Work: Providing Asphalting to Prakruthi Layout at kenchnahalli in Chowdeshwari ward no-02 of Yelahanka Sub division

							Estimate Cost		20.00 Lakhs
Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Earth work in surface **excavation by mechanical means** for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work ((V-I, P.No-8, I No-1.12 of PWD SR 2021-22)								
	Basic Rate	**65.00**							
	Area Weightage 10%	**6.50**							
	Total Rate	**71.50**							
	Asphalt Road								
	Cut Portion								
	Prakruthi Layout								
	Main Rd	1	160.00	1.10	0.40	70.40			
	Cross Rd-1	1	60.00	1.10	0.40	26.40			
						96.80	**Cum**	**71.50**	**6,921.20**
2	Construction of **Granular Sub-Base of** required grading as per design mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per clause 401 .(V-III, I No-4.1V,P No-19,KPWD SR 2021-22)								
	Basic Rate	**2347.00**							
	Area Weightage 10%	**234.70**							
	Total Rate	**2581.70**							
	Asphalt Road								
	Cut Portion								
	Prakruthi Layout								
	Main Rd	1	160.00	1.10	0.15	26.40			
	Cross Rd-1	1	60.00	1.10	0.15	9.90			
						36.30	**Cum**	**2581.70**	**93,715.71**
3	Providing, laying, spreading and compacting graded stone aggregate to **wet mix macadam** specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density (V-III, P.No-24,I No-4.27A)of PWD SR 2021-22).								

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Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Basic Rate	**2394.00**							
	Area Weightage 10%	**239.40**							
	Total Rate	**2633.40**							
	Asphalt Road								
	Cut Portion								
	Prakruthi Layout								
	Main Rd	1	160.00	1.10	0.225	39.60			
	Cross Rd-1	1	60.00	1.10	0.225	14.85			
						54.45	**Cum**	**2633.40**	**143388.63**
	Providing and applying **primer coat** with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means. (V-III, P.No-29,I No-5.1(i) of PWD SR 2021-22).(Issue rate on 07-07-22)								
	Basic Rate	**42.00**							
	Area Weightage 10%	**4.20**							
	Total Rate	**46.20**							
	Asphalt Road								
	Cut Portion								
	Prakruthi Layout								
	Main Rd	1	160.00	1.10		176.00			
	Cross Rd-1	1	60.00	1.10		66.00			
						242.00	**Sqm**	**46.20**	**11,180.40**
	Providing and applying **tack coat** with VG-10 Bitumen using pressure distributor at the rate of 0.20 kg/m2on the prepared bituminous surface cleaned with mechanical broom.(V-III, P.No-145,I No-21A-3 of PWD SR 2021-22).(Issue rate on 07-07-22)								
	Basic Rate	**12.00**							
	Area Weightage 10%	**1.20**							
	Total Rate	**13.20**							
	Asphalt Road								
	Prakruthi Layout								
	Main Rd	1	160.00	7.00		1120.00			
	Cross Rd-1	1	60.00	6.00		360.00			
						1480.00	**Sqm**	**13.20**	**19,536.00**
	Providing and laying **Dense Graded Bituminous Macadam** with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 505 complete in all respects. (V-III, P.No-33,I No-5.12C of PWD SR 2021-22).(Issue rate on 07-07-22)								
	Basic Rate	**9139.00**							
	Area Weightage 10%	**913.90**							

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Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
Total Rate	**10052.90**							
Asphalt Road								
Prakruthi Layout								
Main Rd	1	160.00	7.00	0.05	56.00			
Cross Rd-1	1	60.00	6.00	0.05	18.00			
					74.00	**Cum**	**10052.90**	**743914.60**
Providing and laying **Bituminous Concrete with 40/60 TPH** capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 per cent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects (V-III, P.No.36, I.No.5.16C of PWD SR 2021-22).(Issue rate on 07-07-22)								
Basic Rate	**9827.00**							
Area Weightage 10%	**982.70**							
Total Rate	**10809.70**							
Asphalt Road								
Prakruthi Layout								
Main Rd	1	160.00	7.00	0.04	44.80			
Cross Rd-1	1	60.00	6.00	0.04	14.40			
					59.20	**Cum**	**10809.70**	**639934.24**
Providing and laying of **hot applied thermoplastic compound** 2.5 mm thick including reflectorising glass beads @ 250 g/ m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes.(V-III,I No-8.15, P.No-57 of KPWD SR 2021-22)								
Basic Rate	**478.00**							
Area Weightage 10%	**47.80**							
Total Rate	**525.80**							
Asphalt Road								
Prakruthi Layout								
Main Rd	2	160.00	0.10		32.00			
Cross Rd-1	2	60.00	0.10		12.00			
					44.00	**Sqm**	**525.80**	**23,135.20**
Cost of Haulage Excluding Loading and Unloading Taking output 10 t load and lead 10 km = 100 t.km(V-III Page No.3, Item No.1.4A of PWD SR 2021-22)								
Basic Rate	**12.00**							
8KM Lead = 12*8	**96.00**							
Area Weightage 10%	**9.60**							
Total Rate	**105.60**							
Qty frm Item No-1		96.8	1.28		123.90			
					123.90	**t.Km**	**105.60**	**13,084.26**

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Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
								Total Construction Cost	1694810.24
								18% GST for Construction Cost	305065.84
								Sub Total	1999876.09
								Utility Shifting,Miscellaneous and Rounding off	123.91
								GRAND TOTAL	2000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2021-2022, issue rates dated 07-07-2022 and Data Rates

Assistant Engineer
Ward No-02
BBMP Bangalore

Asst. Executive Engineer,
Yelahanka Sub Division
BBMP Bangalore

Executive Engineer,
Yelahanka Division
BBMP Bangalore

Administrative Approval
Accorded For 20.00 Lakhs.
Head of A/C.....
CER NO :...49..... Dt:22/8/2022

AA

DE (YNK)

TECHNICALLY SANCTIONED FOR Rs. 20.00...
Rupees ...Twenty lakhs Only.....
.....
Under .....
.....
Registered as CE ( ) No. 9 9
Subject to conditions contained in enclosed memo EE ( ) No. ...88...../9/
Dt.22/8/2022..... Estimate is Sanctioned
BBMP/EE/YNK.P/TS/88/22-23 No. 88
Dated 22/8/2022..... Rs. 20.00 Lakhs.

Executive Engineer

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